

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A wear resistant iron base alloy comprising:
  - a) about 2.0 to about 4.0 wt % carbon
  - b) about 3.0 to about 9.0 wt % chromium;
  - c) about 1.0 to about 3.0 wt % silicon;
  - d) about 0 to about 6.0 wt % cobalt;
  - e) about 5.0 to about 15.0 wt % of molybdenum;
  - f) about  $\overline{Z}[[3]]$ .0 to about 15.0 wt % nickel;
  - g) about 0.0 to about 6.0 wt % vanadium;
  - h) about 0.0 to about 4.0 wt % niobium;
  - i) about 0 to about 4.0 wt % manganese;
  - j) about 0 to about 6.0 wt % tungsten;.
  - k) the balance being iron, totaling 100 % by weight.
  
2. (Previously Presented) A part for internal combustion engine component comprising the alloy of claim 1.

3. (Previously Presented) The part of claim 2 where the part is formed by casting the alloy, hardfacing with the alloy either in wire or powder form or the part is formed by powder metallurgy method.

4. (Previously Presented) The alloy composition of claim 1 wherein the amount of carbon is between about 2.2 wt % and about 2.6 wt %.

5. (Previously Presented) The alloy composition of claim 1 wherein the amount of chromium is between about 5.0 wt % and about 8.0 wt %.

6. (Previously Presented) The alloy composition of claim 1 wherein the amount of silicon is between about 1.5 wt % and about 2.5 wt %.

7. (Previously Presented) The alloy composition of claim 1 wherein the amount of cobalt is about 0 wt %.

8. (Previously Presented) The alloy composition of claim 1 wherein the amount of molybdenum is between about 5.0 wt % and about 15.0 wt %.

9. (Currently Amended) The alloy composition of claim 1 wherein the amount of nickel is up to ~~between about 6.0 wt % and about~~ [[10.0]] 12 wt %.

10. (Previously Presented) The alloy composition of claim 1 wherein the amount of vanadium is between about 1.0 and about 3.0 wt %.

11. (Previously Presented) The alloy composition of claim 1 wherein the amount of niobium is between about 1.0 wt % and about 2.0 wt %.

12. (Previously Presented) The alloy composition of claim 1 wherein the amount of manganese is between about 0 and about 0.8 wt %.

13. (Previously Presented) The alloy composition of claim 1 wherein the amount of tungsten is between about 0.5 and about 2.5 wt %.

14. (Previously Presented) The alloy composition of claim 1 wherein the amount of iron is greater than about 45.0 wt %.

15. (Currently Amended) A wear resistant valve insert comprising

An iron base alloy comprising:

- a) about 2.0 to about 4.0 wt % carbon
- b) about 3.0 to about 9.0 wt % chromium;
- c) about 1.0 to about 3.0 wt % silicon;
- d) about 0 to about 6.0 wt % cobalt;
- e) about 5.0 to about 15.0 wt % of molybdenum;

- f) about 7[[3]].0 to about 15.0 wt % nickel;
  - g) about 0.0 to about 6.0 wt % vanadium;
  - h) about 0.0 to about 4.0 wt % niobium;
  - i) about 0 to about 4.0 wt % manganese;
  - j) about 0 to about 6.0 wt % tungsten;
  - k) the balance being iron, totaling 100 % by weight.
16. (New) The alloyed composition of claim 1 wherein the amount of tungsten is between 0.5 and 6 wt %.
17. (New) The alloyed composition of claim 1 wherein the amount of tungsten is between about 2.5 wt % and 6 wt %.
18. (New) The alloyed composition of claim 15 wherein the amount of tungsten is between 0.5 and 6 wt %.
19. (New) The alloyed composition of claim 15 wherein the amount of tungsten is between about 2.5 wt % and 6 wt %.
20. (New) A wear resistant iron base alloy comprising:
- l) about 2.0 to about 4.0 wt % carbon
  - m) about 3.0 to about 9.0 wt % chromium;
  - n) about 1.0 to about 3.0 wt % silicon;
  - o) about 0 to about 6.0 wt % cobalt;
  - p) about 5.0 to about 15.0 wt % of molybdenum;
  - q) about 3.0 to about 15.0 wt % nickel;
  - r) about 0.0 to about 6.0 wt % vanadium;

- s) about 0.0 to about 4.0 wt % niobium;
- t) about 0 to about 4.0 wt % manganese;
- u) about 0 to about 6.0 wt % tungsten;
- v) the balance being iron, totaling 100% by weight;

having a magnetic attraction force of about 90 or less when the alloy has been cast, heated to about 1100° F for about one hour and subjected to liquid nitrogen.

21. (New) A part for internal combustion engine component comprising the alloy of claim 20.

22. (New) The part of claim 21 where the part is formed by casting the alloy, hardfacing with the alloy either in wire or powder form or the part is formed by powder metallurgy method.

23. (New) The alloy composition of claim 20 wherein the amount of carbon is between about 2.2 wt % and about 2.6 wt %.

24. (New) The alloy composition of claim 20 wherein the amount of chromium is between about 5.0 wt % and about 8.0 wt %.

25. (New) The alloy composition of claim 20 wherein the amount of silicon is between about 1.5 wt % and about 2.5 wt %.

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26. (New) The alloy composition of claim 20 wherein the amount of cobalt is about 0 wt %.

27. (New) The alloy composition of claim 20 wherein the amount of molybdenum is between about 5.0 wt % and about 15.0 wt %.

28. (New) The alloy composition of claim 20 wherein the amount of nickel is between about 7.0 and about 12 wt %.

29. (New) The alloy composition of claim 20 wherein the amount of vanadium is between about 1.0 and about 3.0 wt %.

30. (New) The alloy composition of claim 20 wherein the amount of niobium is between about 1.0 wt % and about 2.0 wt %.

31. (New) The alloy composition of claim 20 wherein the amount of manganese is between about 0 and about 0.8 wt %.

32. (New) The alloy composition of claim 20 wherein the amount of tungsten is between about 0.5 and about 2.5 wt %.

33. (New) The alloy composition of claim 20 wherein the amount of iron is greater than about 45.0 wt %.

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